



# Instructional Technology Newsline

Department of Elementary and Secondary Education

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Instructional Technology Staff  
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[http://www.dese.state.mo.us/divimprove/instrtech/  
newsletters](http://www.dese.state.mo.us/divimprove/instrtech/newsletters)

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## Instructional Technology Update

### **FY03 Technology Grants – Funding Levels and End-of-Year Reports**

#### Final Expenditure Reports (FERs):

Final expenditure reports (FERs) must be submitted by May 15, 2003. The TAG FER is to be filed online. The eMINTS FER must be mailed or faxed to the Instructional Technology section. A copy of the eMINTS FER and Request for Amendment forms can be downloaded from our web site at <http://www.dese.state.mo.us/divimprove/instrtech/federalfunded/TitleIID/app.pdf>.

#### TAG Reimbursement Rate:

The Department has begun approving TAG final expenditure reports (FERs) for FY03. The final reimbursement rate has been calculated at 64.65 percent. A table of district final reimbursable amounts is posted on the Instructional Technology web site at <http://www.dese.state.mo.us/divimprove/instrtech/statefunded/entitlement/Final%20TAG%2064.65%25%20Scale%20-%20Deb%20for%20web.xls>

Note that the May payment will be the first to get districts up to the new FER amount. Districts may not submit their FER for more than the maximum amount. If the district spent less than 64.65 percent of the original approved budget, the district would show actual and appropriate expenditures. If a district spent more, it would show *state* expenditures that equal the 64.65 percent amount and include/report over expenditures in the *match* portion of the FER.

### **FY04 Technology Budgets and Grant Programs**

#### Federal Funding:

The USDOE is expected to release the budget table for next year's Title IID (Ed Tech) Program in late May. Early indication is that we will receive an amount equal to (or nearly equal to) what was received for FY03. Of the amount appropriated, 42.5 percent is distributed to districts via a formula based on census poverty data. 42.5 percent is distributed to districts via competitive grants, 5 percent is set aside for state administrative purposes, and 10 percent is held for non-public schools\*.

In Missouri, the competitive Title IID funds are used to expand the eMINTS Professional Development Program into new districts. eMINTS is a two-year program. In FY03, Title IID supported 40 districts. In FY04, funds will be used to support this year's grant recipients plus 31 new districts. Forty-five FY04 applications were submitted by the March 31 deadline and evaluated by panels of readers on April 7-8. Reader scores account for up to 50 percent of the total score. Department staff assign bonus points for economic need (up to 30 points, based on poverty census data) and technology need (up to 20 points, based on Census of Technology data).

Originally the Department was using 1997 (1990 revised) census data to determine eligibility and assign bonus points. In late April, it was determined that we needed to use recently released data from the 2000 census. Switching to the new data resulted in some changes. An up-to-date listing of the districts tentatively approved to receive Title IID funds for next year is posted on our web site at

<http://www.dese.state.mo.us/divimprove/instrtech/federalfunded/TitleIID/fy04%20approval%20table.html>

\* With regards to non-public schools, Department staff met last year with representatives of the Missouri Council of American Private Education, where it was determined to request a ten percent bypass. The Department wrote a letter to the USDOE explaining restrictions that are placed on funds that flow through the Department and, in effect, disallow non-public school access to technology funding. A response from the USDOE is expected in the near future.

#### State Funding:

The state's funding outlook is bleak and uncertain. Earlier in the session, the House passed a DESE budget that had \$eight-plus million earmarked for "new technology" that would support TAG grants at about the 70 to 75 percent level. In late April, the Senate passed its version of the DESE budget with nothing earmarked for school technology. When House and Senate bills disagree, a conference committee is usually convened to reconcile the differences. There's been no word on this development as of this writing.

Districts are reminded that the funding to support the MOREnet-operated TNP was moved out of the Department's (DHE's) budget (HB 2) and moved to the Department of Higher Education's budget (HB 3). Those funds look secure at this time, so we don't expect this funding shift to have any effect on programs and services to K-12 schools. The Department will continue to work closely with MOREnet (and DHE) to plan, implement, and evaluate the programs and services to K-12 schools. Districts can expect to receive FY04 packet materials soon.

#### **State Approval of District Technology Plans**

The Department received education technology plans from over 450 districts and charter schools that needed approved plans that met guidelines set forth by the new Title IID Program and the No Child Left Behind Act. To be in compliance, plans must be approved by June 30, 2003. On April 24-25 over 85 educators from across the state met in Jefferson City to review the plans. When the scoring rubric debuted last spring the approved rate was one of four. This year, however, the approval rate was four out of five! Nearly 20 plans received the maximum score of 100 points and over 80 were cited as being exemplary as determined by readers. On the down side, 40 plans received scores of 59 and lower. Another 40 scored well enough for E-rate purposes, but not high enough for state approval.

Approval status letters are being mailed this week. Districts with plans requiring only a few more points are directed to send revision/supplemental materials to Instructional Technology by May 23. Districts with plans that scored below 60 are directed to send revision/supplemental materials by June 15 and presented with the option of working with a "local expert". Planners from districts with exemplary scores are being asked to post copies of the plans on their web sites and work with districts in need of major revisions or amendments. Instructional Technology staff will serve as the liaison, linking low-scoring districts with high-scoring planners.

#### **Census of Technology (COT)**

##### 2002 COT:

Recently it was reported that the state summary report had been posted on the Instructional Technology web site. Note that the district summary reports are now posted, as well.

##### 2003 COT:

Thanks to all who completed the 2003 COT. The good news was that a significant number of the 2002 items had been dropped. The bad news was that there were several glitches in the programming that hindered our ability to pre-populate cells with last year's data and required data entry in nearly all of the cells. Users complained of having trouble saving data, having to enter data numerous times, and not finding the submit button (which wasn't there as planned and explained in the directions).

The Department had planned to move COT to a new software system this year. With budget problems and higher priorities, the change was postponed to next year. During the year, COT is expected to undergo significant revision in order to meet new Title IID and No Child Left Behind Act requirements. With funding and staffing permitting, Instructional Technology staff plan to convene a task force later in the year to work on the 2004 COT. We haven't any firm details at this time, but feel free to let us know if you are interested in participating in this activity.

#### **Last call for FY04 State Filtering Software Program**

Reminder -- districts have until May 15 to take advantage of WWT's offer to process group buys, to reduce costs of purchasing or renewing filtering software solutions. Purchasing through the Prime Vendor Contract gives districts competitive pricing as a result of the state's bidding process. Prices are further reduced when bulk purchase orders are processed at the same time. Program contacts: Molly Jones (573-636-3731) and Pat Moriarty (314-301-2530).

### **E-Rate Program**

#### Funding Year 2002:

Wave 28 for E-rate funding for funding year 2002 (July 1, 2002-June 30, 2003) will be issued on Monday, May 5, 2003. In this wave, the SLD commits nearly \$10 million in 79 letters to school and library applicants. The funding associated with this wave includes funding for priority 1 (telecommunications and Internet access) and for priority 2 (internal connections) at the 81% through 90% discount level. To date, the SLD has committed nearly \$2.2 billion in 29,378 letters for funding year 2002.

#### Funding Year 2003:

The first wave of letters for funding year 2003 was issued last week. Funding year 2003 provides support for services delivered July 1, 2003 through June 30, 2004. In this wave, the SLD committed nearly \$181 million in 13,945 letters to school and library applicants. Funding is associated with priority 1 services only. While the demand estimate for 2003 priority 1 services was only \$1.745 billion (less than the annual cap of \$2.25 billion), the SLD has no estimate regarding at what level it can fund priority 2 requests. The SLD plans to issue additional waves every other week until the process is complete.

#### FCC Adopts New Rules:

This week, the FCC adopted new rules to simplify and streamline the operation of the E-Rate program. The measures adopted seek to improve program administration, create a more efficient application process for program participants, and improve program oversight to prevent waste, fraud and abuse. The announcement by the FCC said the agency is looking to make the E-rate program's application and disbursement process "as streamlined and straightforward as possible for participants, while also ensuring the continued integrity of the program by strengthening the procedural safeguards." Details in this ruling are directed at (1) improved oversight to prevent waste, fraud and abuse, (2) expanded eligibility of services, including voice mail and wireless services, and (3) a simplified application and billing process. The full text of this order will be available next week. See: <http://www.fcc.gov>.



### **SETDA Releases Tech Toolkit For No Child Left Behind**

The U.S. Department of Education (USDOE) and the [State Educational Technology Directors Association \(SETDA\)](http://www.setda.org) released [The National Leadership Institute Toolkit: States Helping States Implement NCLB](http://www.setda.org/nli2002/CD/index.htm), designed to help states implement the technology requirements of the No Child Left Behind Act. The toolkit is a result of discussions from the SETDA National Leadership Institute, a national summit held in December 2002 where state leaders worked hand in hand with research experts and Department of Education staff to explore implementation strategies related to the technology elements of the No Child Left Behind Act. <http://www.setda.org>  
<http://www.setda.org/nli2002/CD/index.htm>



### **ISTE Releases Guide For Integrating "Handheld Technology in Schools"**

The International Society for Technology in Education (ISTE) has published "Administrative Solutions for Handheld Technology in Schools," a book that provides the blueprint for integrating

handhelds into curricula, classrooms, and administrative tasks. Written as a practical guide to managing and evaluating the educational impact of this new technology, the guide identifies key questions and hurdles administrators need to overcome. The book can be purchased from the ISTE web site. An excerpt from the book can be viewed at <http://www.iste.org/bookstore/detail.cfm?sku=handso>.



## IDEA Reauthorization Advances in the House

In late April, the U.S. House of Representatives approved the Improving Education Results for Children with Disabilities Act (HR 1350), making reforms to the nation's special education law, Individuals with Disabilities Education Act (IDEA). HR 1350 would significantly reduce paperwork for special education teachers, give new options to parents, reduce the number of children wrongly identified for special education, discourage lawsuits, and align the IDEA law with No Child Left Behind. In the Senate, staff continue to work on a bill that they hope to introduce in early May and mark up shortly thereafter.

The House version of IDEA includes significant changes within Part A, where many programs that fund assistive technology research reside. Changes include:

- A new finding in Part D establishes that "support is needed to improve technological resources and integrate technology into the lives of children with disabilities, parents of children with disabilities, school personnel and others through curricula, service, and assistive technologies"
- A new State Professional Development Grants program (in place of the existing State Improvement Grants) that could be used for a variety of professional development activities to improve access to the general curriculum, including activities that support the training of teachers to effectively integrate technology into the curriculum
- A transfer of the research agenda and administration of the Research to Improve Results for Children with Disabilities grant program to the Institute for Education Sciences (IES)

An amendment to the bill would require states to ensure accessibility of instructional materials for blind and other students with print disabilities and to require states to adopt **National File Format**, which will ensure that digital versions of all print materials are in a uniform accessible format. The amendment also requires states to include in contract with textbook publishers as a requirement that, within two years, all instructional materials be made available in the National File Format.

Finally, the bill includes language to encourage states to develop more online professional development resources for teachers and paraprofessionals about special education.

### **National File Format Technical Panel**

In mid-March the National Center on Accessing the Curriculum (NCAC), housed at the Center for Applied Special Technology (CAST), convened the second meeting of the National File Format Technical Panel. The panel is charged with recommending a voluntary national file format to the Department of Education in order to improve access to printed educational materials for blind, low vision children, and children with print disabilities. At the previous meeting, the panel adopted XML based DTBook element set contained within the ANSI/NISO Z39.86 standard for digital talking books as the basis for the national file format. DTBook was originally designed to meet the needs of blind and low vision children, and many panel members are concerned that the current element set is inadequate to meet the needs of children with learning and cognitive disabilities. The panel will continue to adapt this standard to meet the consumer needs previously identified during the first National File Format Technical Panel meeting.

See: <http://www.cast.org/ncac/index.cfm?i=3138>

## ◆ DESE Web Site Gets New Address

Are you ready for a shorter Web address? Well, get ready! The DESE Web site, <http://www.dese.state.mo.us> has started the transition to a new and shorter name: <http://dese.mo.gov>. The new name is already in effect so update your benchmarks. Rest assured the old address will be around for a little while longer and will remain in effect along the new name until December 31, 2004.

Other DESE Web site names will also change. The application Web server will be: <http://k12apps.dese.mo.gov/webapps/logon.asp>. Vocational Rehabilitation will be <http://vr.dese.mo.gov>.

## ◆ MOREnet Offers Summer Training Camps

*--Submitted by Eric Nicklas, Program Manager, K-12 Technology Network Program, MOREnet*

MOREnet's Training group knows how hard it is for school personnel to get away for training during the school year. In an effort to meet your training needs - and your schedule - MOREnet has developed summer camps. These camps have a casual atmosphere, but offer extensive technical information and hands-on opportunities.

This year, MOREnet will provide five different summer camps. They begin at 1 p.m. on Mondays and end at noon on Fridays. There is no cost for training, but travel costs, including meals and accommodations, are the participants' responsibility. Reduced hotel rates are available. All summer camps will be held at MOREnet training facilities in Columbia.

### **HTML Camp - June 16-20**

Learn HTML and how to create a website. Lots of hands-on practice and a disk of your work to take home.

This camp includes the following classes:

- Beginning HTML
- Intermediate HTML
- Good Webpage Design

### **Networking Camp - June 23-27**

This camp covers all the basics and helps answer fundamental questions about networks.

It includes the following classes:

- Basic Troubleshooting Techniques
- Networking 101
- Configuring TCP/IP
- Bridging, Switching, and Routing
- Introduction to Wireless LANs

### **Microsoft Windows 2000 Camp - July 7-11**

Become familiar with new features of Windows 2000 Advanced Server. Get hands-on experience with new administration tools, snap-ins and Internet Information Services version 5.0.

This introductory camp includes the following classes:

- Introduction to Windows 2000 Server
- Introduction to Windows Internet Information Services 5.0
- Microsoft Exchange (tentative)

**Note:** Windows 2000 camp serves as an excellent precursor to the Microsoft Certified Courses for Windows 2000.

### **Novell Camp - July 7-11**

This camp is designed for the beginning Novell network administrator preparing for Novell's CNA 560 and 770 courses. Students work with local and network file systems, install a NetWare 5.x

server, install Client 32 on a Windows 95 workstation, install DNS and DHCP modules and install Border Manager.

This camp includes the following classes:

- Pre-CNA
- Beginning Border Manager
- Configure DNS & DHCP

### **Maintenance Camp - July 14-18**

Get ready to roll up your sleeves and find out what's in that computer. Learn how to make category 5 cables. Lots of hands-on work lets you practice what you learn.

This camp includes the following classes:

- Introduction to Virus Protection
- Maintaining your LAN
- Introduction to PC Hardware
- Upgrading and Maintaining your PC
- Layered Security

Summer camps and MOREnet training sessions are open to any staff member from districts that participate in MOREnet's K-12 Technology Network Program (K-12 TNP). A district's MOREnet contact must request enrollment via the online registration form at

<http://www.more.net/training/trainingform.html>. Training requests should be submitted at least seven business days before the scheduled event. Find complete information about MOREnet training at <http://www.more.net/training/>. For more information, contact [training@more.net](mailto:training@more.net) or call (573) 884-7200 or (800) 509-6673.



### **2003 eMINTS Summer Sampler**

--Submitted by Monica Beglau, eMINTS Instructional Program Leader

<http://emints.more.net/news/>

There will be three Standard Summer Samplers (the five day introductory sessions) in three different locations.

New this year are three Special Summer Samplers: one on WebQuests, one on Using Technology to Teach Students with Special Needs, and one on Evaluating Student Computer-Based Work Products. For the three Standard Samplers and the WebQuest Sampler, preference will be given to non-eMINTS educators. However, we are especially seeking eMINTS teachers for the Special Sampler on Evaluating Student Computer-Based Work Products. We will have the privilege of working with Bernajean Porter (<http://www.edtechplanners.com/>) who is a national consultant in educational technology for part of that week. Please read this opportunity carefully to see if it would be of interest to you.

The cost for all Samplers is \$250 per person and includes lunch each day and all materials.

Registration is on a first-come, first-served basis so please make your decisions as soon as possible and share this information with others in your district who might be interested in participating.



### **Missouri Educational Technology Conference--October 19-21, 2003**

--Submitted by Eric Nicklas, Program Manager, K-12 Technology Network Program, MOREnet

"Teacher-Driven Technology" is the theme for the 2003 Missouri Educational Technology Conference sponsored by Missouri's Department of Elementary and Secondary Education (DESE) and Missouri Research and Education Network (MOREnet). The Missouri Educational Technology Conference provides information on current technologies, solutions, and future directions for educators, administrators, and technology specialists. Join more than 1,000



participants for over 100 presentations, workshops, and hands-on demonstrations in the newest technology and techniques in the fields of education and educational technology. Visit more than 100 exhibits of the latest equipment and materials, all on display at Tan-Tar-A in Osage Beach, Missouri.

For complete details visit the conference website:  
<http://www.more.net/services/conferences/fall2003/>.

Vendors to the educational technology community are invited to apply for booth space to exhibit their products and services. The application deadline is October 3, 2003.

Online registration for "Teacher-Driven Technology" will be available August 25 – October 3 from the conference website.



### **I-TV Workshop**

*--Submitted by Judy Stainback, GreaterNET Executive Director*

In conjunction with the Missouri Distance Learning Association (MoDLA), GreaterNET is hosting and conducting a two-day workshop designed for teachers, technology coordinators, I-TV facilitators, and administrators interested in learning about teaching via two-way interactive television (I-TV).

The workshop will start at 1:00 pm August 4<sup>th</sup> on the campus of State Fair Community College in Sedalia. By 12:00 pm on August 6<sup>th</sup>, attendees will have experienced:

- involvement in an electronic field trip
- discussion/demonstration of the differences/advantages and disadvantages of the various distance learning technologies available
- instruction and hands on time in the operation of I-TV classroom equipment (Polycom codec, document cameras, peripherals)
- instructional strategies for interactivity and classroom management in distance learning classrooms

Attendance is limited to the first 30 who register. Cost for the 15-hour workshop is \$100 per person. Registration will be open until July 18 by emailing your name, school district and address, contact information, and method of payment to GreaterNET Executive Director Judy Stainback at [jstainba@mchsi.com](mailto:jstainba@mchsi.com). Invoices can be generated only upon submission of a district approved purchase order number. Additional logistics information and a workshop syllabus will be mailed to those who register. We are also working with State Fair Community College on the possibility of CEU's being available for completion of this workshop.

A limited number of hotel rooms are on hold at the Best Western State Fair Motor Inn, 32<sup>nd</sup> & South Hwy 65. Contact the hotel at 660-826-6100 and identify yourself as an attendee of the GreaterNET I-TV workshop and ask for the "corporate rate" (which will be approximately \$50 - \$60 plus tax). With the Missouri State Fair beginning the same week, hotel rooms are scarce; so don't delay in making your reservation.



### **The Second Annual METPA Technology Leadership Awards**

*--Submitted by Judy Manhatton, METPA Treasurer*  
[www.metpa.org](http://www.metpa.org)



Nominations were due May 1, 2003 but the date will be extended to May 15th. Entries needed! Two award areas: Best District, School or Classroom Web Page Award and Best Practices in Technology Professional Development.

**Best District, School, or Classroom Web Page Award:**

Nominate your district, building, or classroom web page for this annual recognition. Entry forms are available at [www.metpa.org](http://www.metpa.org).

Judging Criteria:

- Clarity of purpose: The site clearly promotes the mission of the school or district.
- Content: The site provides valuable content and clarity for the user.
- Organization: The site is logically organized; navigation tools are easy and intuitive to use.
- Appearance and design: The graphic design of the site is appealing and inviting to the end-user. Good use of graphics and layout. Can be viewed clearly on multiple platforms and multiple browsers.
- Creativity and Marketing: The site shows evidence of creativity and effective marketing of your district, school or classroom.
- Technology: The site loads quickly and there are no dead-end or out of date links. The site is ADA compliant and takes advantage of current technologies while also allowing older browsers with few plug-ins to view the pages.

**Best Practice Award-for Best Practice in Technology Professional Development:**

Nominate your district or building for your successful implementation of a staff development effort that has led to the increased integration of technology in your school or district. Provide a summary not to exceed two pages which identifies each of the criteria below.

Judging Criteria:

- Description of activity: A brief description of the professional development effort. Who was the target audience and what were the proposed outcomes? What were the results?
- Clarity of activity: The effort clearly promotes the mission of the school or district and advances the effective use of instructional technology.
- Ease of replication: This activity could be replicated by other districts or buildings with minimal problems. Handouts or other resource materials developed: (Not counted toward two page limit.) Please attach any resources developed for this activity (may include links to web based resources created specifically for this professional development activity.)

2002 First Place winners are not eligible for 2003 Awards

Mail to: METPA TECHNOLOGY LEADERSHIP AWARDS c/o Doug Allen, 4917 MILTON CT, INDEPENDENCE, MO 64055. For further information e-mail [doug@dallen.us](mailto:doug@dallen.us)



**“Terrorism: The Implications for Our School”**

MSBA Headquarters, Columbia, Missouri

“Terrorism: The Implications for Our Schools” is the title of a sixty-minute prime time broadcast set for Thursday, May 8, 2003 from 7:00 to 8:00 p.m. CDT. The program will air simultaneously on all Missouri public television stations. Public television stations in Missouri are: KCPT, Kansas City; KETC, St. Louis; KMOS, Warrensburg; KOZJ, Joplin, and KOZK, Springfield. The program will also be available online for streaming and re-broadcasted after its initial airing on May 8. Additionally, arrangements will be announced about the distribution of video copies of the May 8 broadcast.

The broadcast will focus on issues of terrorism and schools. In this context, the program has *three* objectives. The objectives are:

1. To heighten the awareness and promote the involvement of school leaders in homeland security. The terrorist threat to the people of the United States is serious and enduring. As noted in a statement from President Bush in February 2003, the enemy is determined, patient, and adaptive. School leaders must unite and work with others in their communities in cooperative efforts to confront and manage these threats through education and planning.
2. To stress to school leaders the value of developing and/or reviewing school emergency response policies and plans to assure the policies and plans are sensitive to terrorist incidents that might involve the use of weapons of mass destruction with an emphasis on bioterrorism.
3. To encourage school leaders to be proactive in their concern for the capacities of children to cope with the threat of terrorism.

The May 8 program will feature information from specialists in school operations and policy, homeland security, and bioterrorism. Appearing in the broadcast will be Dr. Carter D. Ward<sup>1</sup>, Executive Director, Missouri School Boards' Association and Colonel Timothy M. Daniel<sup>2</sup> (U.S. Army, Ret.), Director, Missouri Office of Homeland Security. *Additional subject specialists will also be featured—including experts in bioterrorism.* Further, an in-studio audience will participate in the broadcast.

The Executive Producer and moderator for "Terrorism: The Implications for Our Schools" will be Patrick Murphy of KETC Public Television, St. Louis. Mr. Murphy is a Telly Award winning producer and director.

Inquiries about "Terrorism: The Implications for Our Schools" should be directed to: Dr. Joel D. Denney, Associate Executive Director, Missouri School Boards' Association, Columbia, Missouri 65203, telephone 573.445.9920, ext. 331; email: [denney@msbanet.org](mailto:denney@msbanet.org).



## **RAVEN Has Landed at the National Aviary**

*--Submitted by Steve Carbol, RAVEN Coordinator*

Something new is hatching at the National Aviary in Pittsburgh, Pennsylvania. RAVEN (Remote Audio Visual Engagement Network), the National Aviary's new distance-learning program, is available for the 2003 season. Distance-learning uses ISDN video-conferencing technology to allow students and instructors to hear, see, and interact with each other from remote locations. RAVEN programs will be very much like a television nature documentary with the opportunity for students to verbally ask questions of the instructor, a feature never available with television. RAVEN is the National Aviary's bid to join this growing cutting-edge educational trend and offer other new unique features as well.

Distance-learning often results in somewhat static presentations as instructors are tied to a stationary camera. The RAVEN program, however, differs from other distance-learning systems in that at its core is a mobile six-foot tall interactive robot. With RAVEN, students will be able to take a virtual guided tour of the National Aviary as the robot tracks and follows the program coordinator through twenty different exhibits featuring over 600 individual birds. The Aviary's collection boasts more than 200 bird species, many of them hand-trained, from a wide range of

<sup>1</sup> Dr. Ward has served as Executive Director of the Missouri School Boards' Association (MSBA) since 1983. He is also the Executive Director of MSBA's foundation, FutureBuilders. Dr. Ward is widely recognized for his expertise in strategic planning as well as school operations. Under his leadership, MSBA has developed a number of innovative programs and services for schools—including, in 1998, the Safe Schools and Safe Communities Consortium. Dr. Ward has served on various national committees and testified before the U.S. Congress on education-related matters.

<sup>2</sup> Colonel Daniel is Director of the first state-level office to have liaison responsibilities to the federal government on homeland security concerns. Colonel Daniel's duties include serving as Chairperson of the Missouri Security Council, a diverse panel of state and local officials and private citizens charged with assessing Missouri's plans to prevent and respond to terrorism. Colonel Daniel has rich experience with the U.S. Army as a long-range planner, including service at the Pentagon in the Office of the Deputy Chief of Staff for Operations and Plans.

habitats covering six of the world's continents. However, even with the Aviary's extensive world-class collection, the birds are not paid actors trained to perform on command and certain avian behaviors may prove elusive to the casual observer.

Thus, close-up live footage provided by a hand-held camera will be supplemented by the robot's sizeable library of video, photographic, and audio clips. These features will allow students to observe rarely-witnessed behaviors such as the energetic and colorful courtship display of the male great argus pheasant, and the dramatic approach of a bald eagle as it plucks a fish from the surface of a Florida lagoon.

Birds can be used to vividly illustrate a number of important current environmental subjects, including ecology, endangered species, evolution, animal behavior, conservation, and introduce organisms. RAVEN will make these topics and other educational opportunities available to teachers and students around the world that would otherwise not have access to the National Aviary's world famous facilities. In turn, RAVEN will help to inspire interest, respect, and stewardship for the world's birds and other wildlife through radical cutting edge multi-media technology. For further information on RAVEN or to become involved in the program, please contact:

Steve Carbol, RAVEN Project Coordinator, The National Aviary at (412) 323-7235 or email: [raven@aviary.org](mailto:raven@aviary.org)



## Missouri Schools and Programs in the News

### Monett R-I

Monett Middle School has been identified and agreed to participate in the McREL Technology Initiative Field test for two-three years. The study will involve two years of intervention and three of data collection. Congratulations!

### EMINTS

Congratulations to Keith Miller, original MINTs teacher, who is recognized for his WebQuest "Take Me Out to the Ballgame" in *Education World's* Newsletter as their "WQ For The Week."

### Hallsville R-IV

Suzanne Stillwell's eMINTS classroom took part in a multi-state Lewis and Clark Project on April 4 using Polycom Technology linking to schools in Michigan and Oklahoma. WOW!



## Copyright Question of the Month

**Q.** May an educator (e.g., administrator, classroom teacher, substitute teacher or student teacher) other district employee, volunteer, or others make a copy of single-user licensed software for archival purposes (back-up copy)?

**A. Yes.** The *original* and one *use copy* may exist simultaneously, but **only** one of the above (*original* or *use copy*) may be utilized at any one time.

Note: In the event the *use copy* is damaged or destroyed, another *use copy* may be created from the *original* (archival). It is usually recommended by software companies that the *original* software be archived for safekeeping.



## Mark Your Calendar

May 5

Newsline published

1	Last date to obligate funds for salaries, benefits and purchased services for TAG, IDL, and eMINTS grants
8	MO Rural Opportunities Council Telecommunications/Education Committee Meeting (1:15-3:30 pm) Governor Office Building, Room 316, Jefferson City, MO
13	eMINTS Orientation for FY04 districts Lenoir Center, Columbia, MO
15	TAG, IDL, and eMINTS grants Final Expenditure Reports due
25	Newsline articles due
June 1	Newsline published
12	MO Rural Opportunities Council Telecommunications/Education Committee Meeting (1:15-3:30 pm) Governor Office Building, Room 316, Jefferson City, MO
25	Newsline articles due

### Upcoming 2003 Conferences

June 25-29	National Technology Student Association Conference Orlando, Florida <a href="http://www.tsaweb.org/conferences_programs/nat_conf.html">www.tsaweb.org/conferences_programs/nat_conf.html</a>
June 26-27	SuccessLink Handheld Computer Conference Tan-Tar-A, Osage Beach, MO <a href="http://www.successlink.org">http://www.successlink.org</a>
June 30-July 2	NECC 2003—Visions and Reflections Seattle, WA <a href="http://www.neccsite.org">http://www.neccsite.org</a>
July 17-18	Distance Learning Education: Is it the Classroom of the Future? (MoDLA Third Annual Conference) Sheraton Westport Hotel Westport Plaza, St. Louis, MO <a href="http://www.modla.org">www.modla.org</a>
July 21-25	Institute for Multi-Sensory Education Orton-Gillingham Summer Training Holiday Inn Select, St. Louis, MO <a href="mailto:IMSE@Orton-Gillingham.com">IMSE@Orton-Gillingham.com</a>
July 23-25	McREL Rural Technology Institute Rapid City, South Dakota <a href="http://www.mcrel.org/rti">www.mcrel.org/rti</a>
August 13-15	19 <sup>th</sup> Annual Conference on Distance Teaching and Learning Madison, Wisconsin <a href="http://www.uwex.edu/disted/conference">www.uwex.edu/disted/conference</a>
October 19-21	Missouri Educational Technology Conference 2003: Teacher-Driven Technology Tan-Tar-A, Osage Beach, MO Missouri Department of Elementary & Secondary Education Missouri Research and Education Network <a href="http://www.more.net/services/conferences/fall2003/">http://www.more.net/services/conferences/fall2003/</a>

### From the Mailbag

McREL Technology Institute (July 23-25, 2003)  
[www.mcrel.org/rti](http://www.mcrel.org/rti)

A three-day conference on technology integration issues for rural school administrators, curriculum specialists, and technology specialists. The RTI is offered free of charge to teams of K-12 educators from rural schools and districts from the states of Colorado, Kansas, Missouri, Nebraska, North Dakota, South Dakota, and Wyoming. For more information and online registration, see [www.mcrel.org/rti](http://www.mcrel.org/rti), email [kcooney@mcrel.org](mailto:kcooney@mcrel.org) or call 303.632.5561

#### St. Louis Demographic Analysis Workshop

When: May 28th or 29th (one day workshops) 9:00 to 4:00

Where: 300 South Broadway, St. Louis, MO 63102

Cost: \$215 for payment at the time of sign up, \$249 regular price

[www.smartgirltechnologies.com](http://www.smartgirltechnologies.com))

The Local Area Demographic Analysis (LADA) Workshop is designed to help human service providers, grant writers, researchers or anyone that would like to easily look up and analyze demographic characteristics such as race, income, age, language, transportation, employment and housing. This is a small, hands on workshop that will teach you to analyze, extract and present 2000/1990 Census (focusing on long form SF3 data), American Community Survey and Census Supplemental information.

In addition to learning demographic analysis methods, participants construct a 1990-2000 Community Change Profile for St. Louis and St. Louis Census tracts focusing on twenty demographic variables, learn how to work with non-Census geographic boundaries and boundary changes over time, key elements of a strong demographic analysis, transforming raw data into information and the visual representation of data. While this particular workshop will focus on St. Louis, the techniques presented in this workshop will be applicable to ANY other location. Space is limited to 16 participants, so sign up soon!

#### Weaving a Secure Web Around Education: A Guide to Technology Standards and Security

<http://nces.ed.gov/pubs2003/2003381.pdf>

A publication by the National Center For Education Statistics' National Forum on Education Statistics (US) provides recommendations for development, maintenance, and standardization for effective Web sites. Some of the topics covered include possible content for education based Web sites, practical considerations necessary for the development and maintenance of a Web site, and the procurement process outlining the three approaches to developing bid requests including technical specifications, request for qualifications, and request for proposals.

#### Connected To The Future

Source: Corporation for Public Broadcasting (CPB)

[http://www.cpb.org/pdfs/ed/resources/connected/03\\_connect\\_report.pdf](http://www.cpb.org/pdfs/ed/resources/connected/03_connect_report.pdf)

Almost two-thirds of American children between the ages of two and 17 logged onto the Internet during 2002, and the biggest gain occurred among African-American children, according to "Connected to the Future," a new report from the Corporation for Public Broadcasting (CPB). However, these increases have not erased the historical disparities between under-served and more advantaged children regarding Internet access.

#### Finding The Balance

[http://www.cosn.org/resources/bosco\\_paper.pdf](http://www.cosn.org/resources/bosco_paper.pdf)

The CoSN web site features an article by James Bosco, "Toward a Balanced Appraisal of Educational Technology in U.S. Schools." Bosco presents a frank assessment of the current status of educational technology in U.S. schools. He describes seven challenges that pose quite significant obstacles of political, organizational and structural nature, detailing what needs to be done to achieve the promise of ICT to create powerful and compelling learning environments.

#### "A Report on Children's Internet Use"

<http://www.cpb.org/ed/resources/connected/>

The Corporation for Public Broadcasting (CPB) recently released "A Report on Children's Internet Use." The study was conducted by Grunwald Associates and is available on the above listed website.

#### New North American Council for Online Learning

<http://www.nacol.org>

The North American Council for Online Learning (NACOL) was recently formed. Funded by the William and Flora Hewlett Foundation and the Bill and Melinda Gates Foundation, the NACOL mission is to increase educational opportunities and enhance learning by providing collegial expertise and leadership in K-12 online teaching and learning.

#### Technology Benchmarks K-12, Part 2

[http://www.techlearning.com/db\\_area/archives/WCE/archives/bencmkw2.html](http://www.techlearning.com/db_area/archives/WCE/archives/bencmkw2.html)

These Web sites provide help in compiling technology benchmarks that promote high academic achievement, education standards, assessments, and accountability. Many include technology skill lessons.

#### From the Annenberg/CPB Channel

##### Don't Lose Sight of Silence

In the rush to prepare our students in reading and math, remember how science can help in that mission—that was the message of Joanne Vasquez, former president of the National Science Teachers Association, during her presentation recently at the organization's national convention.

Channel workshops can assist districts and individual teachers improve their content background. Look for the many workshops that focus on science content, as well as pedagogy, at

[http://www.learner.org/about/news/news\\_profdev.html](http://www.learner.org/about/news/news_profdev.html) Register now for the Summer or Fall season broadcasts -at no cost- at 1-800-LEARNER or [Channel@learner.org](mailto:Channel@learner.org) .

#### **DID YOU MISS ANY BROADCASTS?**

Summer broadcasts provide the perfect opportunity to tape the seven new professional development workshops and courses offered this past school year on the Annenberg/CPB Channel. They range in topics from math content for K-8 teachers, to high school chemistry, or K-12 geography, and more. Since most are broadcast in the "institute" format (daily, Monday through Thursday, for two weeks) taping is easier in the summer. These will form a rich addition to a professional development library.

Register for the workshops and courses by calling 1-800-LEARNER or online at [http://www.learner.org/channel/workshops/register\\_info.html](http://www.learner.org/channel/workshops/register_info.html) , and receive the accompanying support materials at no cost. For a complete list of professional development offerings, visit [http://www.learner.org/about/news/news\\_profdev](http://www.learner.org/about/news/news_profdev)

#### The Condition of Education in Rural America

<http://www.ncrel.org/rural/dochome.htm>.

Pulling Together: R&D Resources for Rural Schools brings together a collection of research and development resources, developed by the nation's ten regional educational laboratories, to assist rural educators in providing a high quality education for all children. The site now features an updated version of "The Rural Circumstance," a Web-based document that speaks to the educational challenges of rural America. Graphs and statistics have all been made current, and the text now includes information on NCLB, as well as other significant conditions in rural education. View "The Rural Circumstance" online at <http://www.ncrel.org/rural/dochome.htm>.



#### **Internet Sites of Interest**

##### Learning from Baseball

<http://www.teachersfirst.com/baseball.htm>



A neat opportunity to incorporate the national pastime into the study of history, math, physics, and social studies. Teachers First's newly updated Learning from Baseball is a collection of baseball-related sites for all grade levels. They range from the "just plain fun" to some serious physics and cultural history. If you have sports fans in your classroom, Learning from Baseball might be a hit.

#### Reading Themes

<http://www.teachersandfamilies.com/open/readtheme-sel.htm>

How do you keep your reluctant readers motivated? Giving students books you know they'll like is a great strategy. The theme-based reading lists on our companion TeachersAndFamilies sites do just that. You'll find titles, synopses, even suggested grade levels for books on lots of different themes. Books make great gifts (a birthday book for the library?) so this is also a great page to recommend to parents.

#### Free Online Sessions

<http://www.macromedia.com/resources/government/training/>

These free online courses are geared to K-12 teachers. Short, free online sessions on things such as searching on the Internet, using Internet Explorer, Using Word and Excel. They even go into developing online courseware (using their products of course) but could be of interest to K-12 staff.

FYI - The online courses do require the Macromedia Authorware Web Player (free) which would need to be downloaded:

<http://www.trainingcafe.com/members/downloads/getawp.htm>

#### BS: Teaching the War in Iraq

<http://www.pbs.org/newshour/extra/teachers/iraq/>

#### TIME for Kids: America at War

<http://www.timeforkids.com/TFK/specials/iraq/0,8805,424876,00.html>

#### Weekly Reader: Classroom Activities for Conflict In Iraq

<http://www.weeklyreader.com/teachers/iraq/classact.asp>

#### Talking with Kids about the News

<http://www.talkingwithkids.org/television/twk-news.html>

#### Eclipses

Eclipses occur when the Sun, Earth and Moon line up. In a solar eclipse the Moon passes directly in front of the Sun. In a lunar eclipse the Moon moves into Earth's shadow. There will be a total lunar eclipse on May 15-16 2003 from about 9:00PM – 2:00AM EDT - <http://sunearth.gsfc.nasa.gov/eclipse/extra/TLE2003May15.html>

#### Lunar Eclipses for Beginners

<http://www.mreclipse.com/Special/LEprimer.html>

#### Fact Monster: Eclipse

<http://www.factmonster.com/ce6/sci/A0816707.html>

#### Eclipse Lesson Plans & Activities

[http://www.thursdaysclassroom.com/index\\_12aug99.html](http://www.thursdaysclassroom.com/index_12aug99.html)

#### Sky & Telescope: Eclipses

<http://skyandtelescope.com/observing/objects/eclipses/>

#### Lunar Eclipse Computer (Hint: use closest major city for best results)

<http://aa.usno.navy.mil/data/docs/LunarEclipse.html>



### Insects

Insects at EnchantedLearning.com

<http://www.enchantedlearning.com/themes/insects.shtml>

Entomological Society of America

[http://www.entsoc.org/education/elem\\_mid/projects.htm](http://www.entsoc.org/education/elem_mid/projects.htm)

Insectclopedia

<http://www.insectclopedia.com>

Univ. of Arizona Center for Insects Science Ed. Outreach

<http://insected.arizona.edu/home.htm>

Bug People: Teacher Resources & Online Fun!

<http://www.bugpeople.org/curriculum/curriculum.htm>

### Newest eThemes

Helping Students Understand the War in Iraq

<http://emints.more.net/ethemes/resources/S00001015.html>

These sites have tips to help educators answer students' questions about the war with Iraq. Includes information about identifying students who are upset and advice on how to help them cope. There are activities to prompt students to discuss their feelings. Other sites let students post their artwork online or send a message to troops. There is a link to an eThemes Resource on Iraq.

Animals: Mammoths

<http://emints.more.net/ethemes/resources/S00001009.html>

These sites are about mammoths that lived until the end of the Ice Age. Learn about the woolly, the Columbian, and the Jefferson's mammoth. There are printable sheets, illustrations, maps, and an animated movie showing mammoths fighting. Includes information about excavating mammoths in Siberia and reasons why scientists believe the animals became extinct.

Country: Iraq

<http://emints.more.net/ethemes/resources/S00001000.html>

Learn more about Iraq and its geography, people, and culture. Includes the latest news reports on the current conflict, plus information about Saddam Hussein. There are maps, pictures, video clips, lesson plans, and online news sites for kids.

Country: French Polynesia

<http://emints.more.net/ethemes/resources/S00001010.html>

These sites are about the French Polynesia, a group of islands in the South Pacific. Learn about the geography, history, government, and culture of these islands. Topics include black pearls, mythology, and Captain James Cook.

Decade: 1950-1959

<http://emints.more.net/ethemes/resources/S00001004.html>

Learn more about life in America in the 1950s. Topics include the Korean War, rock 'n' roll, color televisions, fashion, Explorer 1, and scientific achievements. Includes maps, timelines, and a quiz.

Folktales: Pourquoi Tales

<http://emints.more.net/ethemes/resources/S00001005.html>

These sites explain what pourquoi tales are and offer tips for writing them. Read numerous online examples of these legends, which offer explanations for different elements in nature. There are links to an eThemes Resources on online children's stories and tall tales.

Literature: "Call it Courage" by Armstrong Sperry

<http://emints.more.net/ethemes/resources/S00000990.html>

These sites have information about author Armstrong Sperry and the book "Call it Courage." Includes lesson plans and activities. There are links to eThemes Resources on sharks, hurricanes, and Polynesia.

Literature: "The Lucky Baseball Bat" by Matt Christopher

<http://emints.more.net/ethemes/resources/S00001001.html>

These sites are about the book "The Lucky Baseball Bat" by Matt Christopher. Includes lesson plans, group activities, and biographies on the author. There are links to eThemes Resources on baseball, the St. Louis Cardinals, and book activities.

Human Body Systems

<http://emints.more.net/ethemes/resources/S00001013.html>

Learn about the different human body systems and how they function in these sites that are written for elementary students. Includes illustrations, animated movies, online quizzes, and interactive tours of the body. There are links to several eThemes Resources on anatomy for older students.

Grammar: Nouns

<http://emints.more.net/ethemes/resources/S00001020.html>

These sites are about nouns. Read about different types of nouns and their functions. Includes plural, singular, common, proper, countable, non-countable, and more. There are examples, interactive quizzes, online games, handouts, and classroom activities. eThemes Resources on possessive nouns and pronouns are linked.

Grammar: Prepositions

<http://emints.more.net/ethemes/resources/S00001022.html>

These sites are about prepositions and prepositional phrases. Includes tutorials explaining prepositions and how they are used. There are online games, quizzes, and classroom activities to practice identifying prepositions.

Immigration: Angel Island

<http://emints.more.net/ethemes/resources/S00000996.html>

These sites are about Angel Island, a former immigration station in San Francisco Bay. Includes information on the experience of early Asian immigrants who came through this station. There are photos and videos of early immigration. Also includes lesson plans and suggested activities for students on the cultures of Asian immigrants. Linked are eThemes Resources on Ellis Island and immigrants in Missouri.

Anatomy: Respiratory System

<http://emints.more.net/ethemes/resources/S00001016.html>

These sites have information about the respiratory system for students in the upper grades. Discover the structure and function of this system's organs. Includes videos, diagrams, online games, and quizzes about the respiratory system. Includes a link to an eThemes Resource on Human Body Systems for younger grades.

Literature: "Dovey Coe" by Frances O'Roark Dowell

<http://emints.more.net/ethemes/resources/S00001025.html>>

These sites are about the book "Dovey Coe" and author Frances O'Roark Dowell. Includes interviews and biographies of the author. There are classroom activity ideas, book reviews, and discussion questions that go along with the book. There are also photographs of Boone, NC, and the mountains of North Carolina. eThemes Resources on American Sign Language, Disability Awareness, and the American Judicial Branch are linked.

Literature: "The War with Grandpa" by Robert Kimmel Smith

[<http://emints.more.net/ethemes/resources/S00001024.html](http://emints.more.net/ethemes/resources/S00001024.html)

These sites are about the book "The War with Grandpa" by Robert Kimmel Smith. Included are author biographies, lesson plans, and classroom activities. There are online games for studying vocabulary from the book. There are also links to eThemes Resources on Interviewing Senior Citizens and Aging.

Lewis and Clark Expedition: York

[<http://emints.more.net/ethemes/resources/S00001030.html](http://emints.more.net/ethemes/resources/S00001030.html)

These sites contain information on York, William Clark's slave on the Corps of Discovery. York was the first African American to cross what is now the United States from coast to coast. Includes several journal entries which refer to York during the expedition. There is information about a future statue to honor York in Louisville. An eThemes Resource on the Lewis and Clark Expedition is linked.

Health: Sleep and Dreams

[<http://emints.more.net/ethemes/resources/S00001027.html](http://emints.more.net/ethemes/resources/S00001027.html)

This resource contains sites about sleep and dreams. Discover the different stages of sleep and the importance of sleep. Includes reasons for dreaming, symbols found in dreams, and nightmares. There are also activities and experiments to record and interpret dreams.

Holiday: Mother's Day

[<http://emints.more.net/ethemes/resources/S00001033.html](http://emints.more.net/ethemes/resources/S00001033.html)

These sites are about Mother's Day. Learn about Julia Ward Howe and Anna Jarvis, two women who helped establish this holiday in America. Included are craft activities, online quizzes, poems, and cards to decorate.

Aviation: Wright Brothers

[<http://emints.more.net/ethemes/resources/S00001018.html](http://emints.more.net/ethemes/resources/S00001018.html)

These sites are about the Wright Brothers and their early airplanes. Includes biographies on Wilbur and Orville that tell about their family and careers. Discover what inspired them to build planes. Contains historical photographs, movies, diaries, interviews, and simulations. There is an eThemes Resource on Transportation: Aircraft linked.

Decade: 1910-1919

[<http://emints.more.net/ethemes/resources/S00001029.html](http://emints.more.net/ethemes/resources/S00001029.html)

Read about life in America during the 1910s. View the fashions of this time. Read about the Tango and silent movies that were popular. Learn about WWI and see photographs and diaries from soldiers. Topics include inventions during the 1901's such as air conditioners and radio receivers. There is also information about women suffrage and the 1918 Influenza outbreak. eThemes Resources on the Titanic, Angel Island Immigration Station, and the Wright Brothers are linked.

Titanic

[<http://emints.more.net/ethemes/resources/S00001028.html](http://emints.more.net/ethemes/resources/S00001028.html)

These sites are about the RMS Titanic that sank in 1912. Includes information on the building of the ship, the iceberg accident, and its 1985 discovery. There are photographs and biographies of the passengers and crew. See newspaper articles that covered the disaster and personal accounts from survivors. Includes a photograph of the iceberg believed to have sunk the Titanic. An eThemes Resource on the 1910-1919 Decade is linked.

Updated eThemes

Health: Diet and Nutrition

[<http://emints.more.net/ethemes/resources/S00000097.html](http://emints.more.net/ethemes/resources/S00000097.html)

This resource is about nutrition and healthy diets. Learn about the food pyramid and how food is good for the body. These sites cover how to read food labels and look for additives. There are also online games and quizzes about nutrition.

#### Missouri: Geography and Landforms

<http://emints.more.net/ethemes/resources/S00000176.html>

These sites are about the different geographical regions and natural resources in Missouri. Learn about the Ozarks, the Ozark border, glaciated plains, Osage plains, and Mississippi lowlands. Includes classroom activities, plus videos from the Missouri Heritage series. There are links to eThemes Resources on Missouri maps, rivers, and regions.

#### Electricity: Circuits, Conductors, and Batteries

<http://emints.more.net/ethemes/resources/S00000319.html>

These sites have lots of illustrations and animations that demonstrate how electricity, circuits, and batteries work. Learn the difference between conductors and insulators. Includes suggested activities, hands-on experiments, and online quizzes. There is a link to an eThemes Resource on electrical safety.